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DATE MAILED: 08/23/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/783,823	02/20/2004	Yoshikatsu Tanaka	WAKA 20.997(100957-00084	7053
26304 75	90 08/23/2006		EXAM	INER
KATTEN MUCHIN ROSENMAN LLP			KINKEAD, ARNOLD M	
575 MADISON AVENUE NEW YORK, NY 10022-2585			ART UNIT	PAPER NUMBER
non rom, .			2817	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/783,823	TANAKA, YOSHIKATSU			
		Examiner	Art Unit			
		Arnold M. Kinkead	2817			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with t	he correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 12 Ju	<u>une 2006</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
4)🖂	Claim(s) 1-7 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-7</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to by	the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
_	Replacement drawing sheet(s) including the correct		· ·			
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached O	ffice Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmer	nt(s)					
1) Notic	ce of References Cited (PTO-892)		mary (PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N 5) Notice of Infor	lail Date mal Patent Application (PTO-182) //			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	6) Other:	ahrel			

Application/Control Number: 10/783,823 Page 2

Art Unit: 2817

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Pollard(US 4,627,533 of record).

The reference by Pollard discloses a temperature compensated crystal oscillator, the oscillator circuit is shown in figures 2 and 3. The package is hermetically sealed(see figure 2, and col.4, lines 24-30; In figures 2 and 3, <u>the elements/circuit components(resonator crystal 72, a circuit component) is shown mounted on the surface of the substrate(42, see col. 2, lines 35-65) in a cavity(44). Figure 3 shows the substrate circuit pattern and shows mounting electrodes(64,66,74,76) on the reverse side. Cols. 1-col. 2 describe the use of temperature <u>compensation</u> <u>circuit(68,70) outside of the crystal cavity</u> that allows for to directly compensating the crystal oscillator. Note chip mounted compensation circuit (70), see col. 3, lines 35-end.</u>

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2817

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims, 4,5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollard(* 533) in view of Kimura et al (US 6,487,085 of record).

The reference by Pollard discloses a temperature compensated crystal oscillator, the oscillator circuit is shown in figures 2 and 3. The package is hermetically sealed(see figure 2, and col.4, lines 24-30; In figure 2, the elements/circuit components(resonator *crystal 72, a circuit component*) is shown mounted on the surface of the substrate(42) in a cavity(44). Figure 3 shows the substrate circuit pattern and shows mounting electrodes(64,66,74,76) on the reverse side. Cols. 1-col. 2 describe the use of temperature *compensation circuit*(68,70) outside of the crystal cavity that allows for to directly compensating the crystal oscillator. Note chip mounted compensation circuit (70), see col. 3, lines 35-end.

The reference by Pollard does not show conventional dimensions in (mm) for the chip components. With regard to the latter, the reference by Kimura et al discloses the same dimensions, i.e. 0.6mmX 0.3mm as the size of the chip capacitors(23a, fig.1), see col.5, lines 38-42. These dimensions allow for other elements to share cavity space, for example. Also, an adjustable varactor element for adjusting frequency via an external line is not shown. With regards this capacitor, Kimura, also shows such an element, see figure 2, element 32, that will allow for frequency adjustment via terminal 34e.

Art Unit: 2817

In light of the above it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have recognized the importance of having the proper size dimensions, as noted above by Kimura et al, to allow for the chip elements and crystal to be recessed together. The specific dimension being dependent on the overall desired package size and Kimura et al serves to highlight the use of 0.6mmX0.3mm dimension. The overall function of the elements do not change and thus the reference by Jiles et al could have used such dimensioned chip elements to allow for a particular package size. The use of a varactor is also conventional as highlighted in Kimura, for allowing further frequency control as desired with temperature compensation as well to move towards the desired frequency.

Response to Arguments

4. Applicant's arguments filed 06-12-06 have been fully considered but they are not persuasive. The examiner maintains rejection in that the crystal unit as identified is heremtically sealed and the other components outside cavity are identified in part as the temperature compensation elements.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37
 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Art Unit: 2817

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed

to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri,

8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal

can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or

Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M Kinkead Primary Examiner

Art Unit 2817

Arnold Kinkead

08-17-06